

MINOR SOURCE OPERATING PERMIT OFFICE OF AIR MANAGEMENT

**J & P Custom Plating, Inc.
807 N. Meridian
Portland, Indiana 47371**

(herein known as the Permittee) is hereby authorized to operate subject to the conditions contained herein, the emission units described in Section A (Source Summary) of this permit.

This permit is issued to the above mentioned company under the provisions of 326 IAC 2-1.1, 326 IAC 2-6.1 and 40 CFR 52.780, with conditions listed on the attached pages.

Operation Permit No.: MSOP 075-11672-00028	
Issued by: Paul Dubenetzky, Branch Chief Office of Air Management	Issuance Date:

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SECTION A

SOURCE SUMMARY

This permit is based on information requested by the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM). The information describing the source contained in conditions A.1 through A.3 is descriptive information and does not constitute enforceable conditions. However, the Permittee should be aware that a physical change or a change in the method of operation that may render this descriptive information obsolete or inaccurate may trigger requirements for the Permittee to obtain additional permits or seek modification of this permit pursuant to 326 IAC 2, or change other applicable requirements presented in the permit application.

A.1 General Information [326 IAC 2-5.1-3(c)] [326 IAC 2-6.1-4(a)]

The Permittee owns and operates a stationary decorative chromium electroplating plant for antique car parts.

Authorized Individual: John Goodrich
Source Address: 807 N Meridian, Portland, Indiana 47371
Mailing Address: P.O. Box 16, Portland, Indiana 47371
Phone Number: (219) 726-9684
SIC Code: 3471
County Location: Jay
County Status: Attainment for all criteria pollutants
Source Status: Minor Source, under PSD or Emission Offset Rules;
Minor Source, Section 112 of the Clean Air Act

A.2 Emissions units and Pollution Control Equipment Summary

This stationary source is approved to operate the following emissions units and pollution control devices:

- (a) One (1) decorative chromium electroplating tank, identified as tank no. 7, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using a wetting agent as control, and exhausting to one (1) stack, identified as S-1.
- (b) One (1) bright acid copper tank, identified as tank no. 1, with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (c) Two nitric acid tanks, identified as tank no. 2 and 2', each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (d) One (1) nickel plating tank, identified as tank no. 3, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (e) One (1) brass plating tank, identified as tank no.4, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (f) Two(2) cyanide copper tanks, identified as tank no.5 and no. 6, each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no control, and exhausting inside the building.
- (g) One holding tank, identified as tank no. 8, using no controls, and exhausting inside the

building.

- (h) Four (4) cleaning tanks, identified as tank no. 10, no. 11, no. 12 and no. 13, each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (i) Two(2) shot blasters, identified as SB-1 and SB-2, each with a maximum shot blasting capacity of one hundred and twenty-five (125) pounds of antique car parts per hour, and each exhausting to a baghouse.
- (j) One (1) cold cleaner, identified as CC-1, with a maximum usage of 3.33 gallons per month, and using a liquid (H₂O) barrier to control VOC emissions.

A.3 Part 70 Permit Applicability [326 IAC 2-7-2]

This stationary source is not required to have a Part 70 permit by 326 IAC 2-7-2 (Applicability) because:

- (a) It is not a major source, as defined in 326 IAC 2-7-1(22);
- (b) It is not an affected source under Title IV (Acid Deposition Control) of the Clean Air Act, as defined in 326 IAC 2-7-1(3);
- (c) It is not a source in a source category designated by the United States Environmental Protection Agency (U.S. EPA) under 40 CFR 70.3 (Part 70 - Applicability).

SECTION B GENERAL CONSTRUCTION CONDITIONS

THIS SECTION OF THE PERMIT IS BEING ISSUED UNDER THE PROVISIONS OF 326 IAC 2-1.1 AND 40 CFR 52.780, WITH CONDITIONS LISTED BELOW.

B.1 Permit No Defense [IC 13]

This permit to construct does not relieve the Permittee of the responsibility to comply with the provisions of the Indiana Environmental Management Law (IC 13-11 through 13-20; 13-22 through 13-25; and 13-30), the Air Pollution Control Law (IC 13-17) and the rules promulgated thereunder, as well as other applicable local, state, and federal requirements.

B.2 Definitions

Terms in this permit shall have the definition assigned to such terms in the referenced regulation. In the absence of definitions in the referenced regulation, any applicable definitions found in IC 13-11, 326 IAC 1-2, and 326 IAC 2-1.1-1 shall prevail.

B.3 Effective Date of the Permit [IC13-15-5-3]

Pursuant to IC 13-15-5-3, this permit becomes effective upon its issuance.

B.4 Modification to Permit [326 IAC 2]

All requirements and conditions of this operating permit shall remain in effect unless modified in a manner consistent with procedures established for modifications of operating permits pursuant to 326 IAC 2 (Permit Review Rules).

SECTION C SOURCE OPERATION CONDITIONS

Entire Source

C.1 PSD Minor Source Status [326 IAC 2-2] [40 CFR 52.21]

- (a) The total source potential to emit of any of the criteria pollutants is less than 250 tons per year. Therefore the requirements of 326 IAC 2-2 (Prevention of Significant Deterioration) and 40 CFR 52.21 will not apply.
- (b) Any change or modification which may increase potential to emit to 250 tons per year from this source, shall cause this source to be considered a major source under PSD, 326 IAC 2-2 and 40 CFR 52.21, and shall require approval from IDEM, OAM prior to making the change.
- (c) Any change or modification which may increase potential to emit to 10 tons per year of any single hazardous air pollutant, twenty-five tons per year of any combination of hazardous air pollutants, or 100 tons per year of any other regulated pollutant from this source, shall cause this source to be considered a major source under Part 70 Permit Program, 326 IAC 2-7, and shall require approval from IDEM, OAM prior to making the change.

C.2 Preventive Maintenance Plan [326 IAC 1-6-3]

- (a) If required by specific condition(s) in Section D of this permit, the Permittee shall prepare and maintain Preventive Maintenance Plans (PMP) after issuance of this permit, including the following information on each emissions unit:
 - (1) Identification of the individual(s) responsible for inspecting, maintaining, and repairing emission control devices;
 - (2) A description of the items or conditions that will be inspected and the inspection schedule for said items or conditions;
 - (3) Identification and quantification of the replacement parts that will be maintained in inventory for quick replacement.
- (b) The Permittee shall implement the Preventive Maintenance Plans as necessary to ensure that failure to implement the Preventive Maintenance Plan does not cause or contribute to a violation of any limitation on emissions or potential to emit.
- (c) PMP's shall be submitted to IDEM, OAM, upon request and shall be subject to review and approval by IDEM, OAM. IDEM, OAM, may require the Permittee to revise its Preventive Maintenance Plan whenever lack of proper maintenance causes or contributes to any violation.

C.3 Permit Revision [326 IAC 2-5.1-3(e)(3)] [326 IAC 2-6.1-6]

- (a) The Permittee must comply with the requirements of 326 IAC 2-6.1-6 whenever the Permittee seeks to amend or modify this permit.

- (b) Any application requesting an amendment or modification of this permit shall be submitted to:

Indiana Department of Environmental Management
Permits Branch, Office of Air Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206-6015

Any such application should be certified by the "authorized individual" as defined by 326 IAC 2-1.1-1.

- (c) The Permittee shall notify the OAM within thirty (30) calendar days of implementing a notice-only change. [326 IAC 2-6.1-6(d)]

C.4 Inspection and Entry [326 IAC 2-5.1-3(e)(4)(B)] [326 IAC 2-6.1-5(a)(4)]

Upon presentation of proper identification cards, credentials, and other documents as may be required by law, and subject to the Permittee's right under all applicable laws and regulations to assert that the information collected by the agency is confidential and entitled to be treated as such, the Permittee shall allow IDEM, OAM, U.S. EPA, or an authorized representative to perform the following:

- (a) Enter upon the Permittee's premises where a permitted source is located, or emissions related activity is conducted, or where records must be kept under the conditions of this permit;
- (b) Have access to and copy, at reasonable times, any records that must be kept under this title or the conditions of this permit or any operating permit revisions;
- (c) Inspect, at reasonable times, any processes, emissions units (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit or any operating permit revisions;
- (d) Sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with this permit or applicable requirements; and
- (e) Utilize any photographic, recording, testing, monitoring, or other equipment for the purpose of assuring compliance with this permit or applicable requirements.

C.5 Transfer of Ownership or Operation [326 IAC 2-6.1-6(d)(3)]

Pursuant to [326 IAC 2-6.1-6(d)(3)] :

- (a) In the event that ownership of this source is changed, the Permittee shall notify IDEM, OAM, Permits Branch, within thirty (30) days of the change.
- (b) The written notification shall be sufficient to transfer the permit to the new owner by an notice-only change pursuant to 326 IAC 2-6.1-6(d)(3).
- (c) IDEM, OAM, shall issue a revised permit.

The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.6 Permit Revocation [326 IAC 2-1-9]

Pursuant to 326 IAC 2-1-9(a)(Revocation of Permits), this permit to operate may be revoked for any of the following causes:

- (a) Violation of any conditions of this permit.
- (b) Failure to disclose all the relevant facts, or misrepresentation in obtaining this permit.
- (c) Changes in regulatory requirements that mandate either a temporary or permanent reduction of discharge of contaminants. However, the amendment of appropriate sections of this permit shall not require revocation of this permit.
- (d) Noncompliance with orders issued pursuant to 326 IAC 1-5 (Episode Alert Levels) to reduce emissions during an air pollution episode.
- (e) For any cause which establishes in the judgment of IDEM, the fact that continuance of this permit is not consistent with purposes of this article.

C.7 Opacity [326 IAC 5-1]

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Alternative Opacity Limitations), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) in any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

Testing Requirements

C.8 Performance Testing [326 IAC 3-6]

- (a) Compliance testing on new emissions units shall be conducted within 60 days after achieving maximum production rate, but no later than 180 days after initial start-up, if specified in Section D of this approval. All testing shall be performed according to the provisions of 326 IAC 3-6 (Source Sampling Procedures), except as provided elsewhere in this permit, utilizing any applicable procedures and analysis methods specified in 40 CFR 51, 40 CFR 60, 40 CFR 61, 40 CFR 63, 40 CFR 75, or other procedures approved by IDEM, OAM.

A test protocol, except as provided elsewhere in this permit, shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015

Indianapolis, Indiana 46206-6015

no later than thirty-five (35) days prior to the intended test date. The Permittee shall submit a notice of the actual test date to the above address so that it is received at least two weeks prior to the test date.

- (b) All test reports must be received by IDEM, OAM within forty-five (45) days after the completion of the testing. An extension may be granted by the IDEM, OAM, if the source submits to IDEM, OAM, a reasonable written explanation within five (5) days prior to the end of the initial forty-five (45) day period.

The documentation submitted by the Permittee does not require certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Compliance Monitoring Requirements

C.9 Compliance Monitoring [326 IAC 2-1.1-11]

Compliance with applicable requirements shall be documented as required by this permit. The Permittee shall be responsible for installing any necessary equipment and initiating any required monitoring related to that equipment, no more than ninety (90) days after receipt of this permit. If due to circumstances beyond its control, this schedule cannot be met, the Permittee may extend the compliance schedule an additional ninety (90) days provided the Permittee notifies:

Indiana Department of Environmental Management
Compliance Branch, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015

in writing, prior to the end of the initial ninety (90) day compliance schedule, with full justification of the reasons for the inability to meet this date. The notification which shall be submitted by the Permittee does require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

C.10 Monitoring Methods [326 IAC 3]

Any monitoring or testing required by Section D of this permit shall be performed according to the provisions of 326 IAC 3, 40 CFR 60, Appendix A, or other approved methods as specified in this permit.

C.11 Compliance Monitoring Plan - Failure to Take Response Steps [326 IAC 1-6]

- (a) The Permittee is required to implement a compliance monitoring plan to ensure that reasonable information is available to evaluate its continuous compliance with applicable requirements. This compliance monitoring plan is comprised of:
- (1) This condition;
 - (2) The Compliance Determination Requirements in Section D of this permit;
 - (3) The Compliance Monitoring Requirements in Section D of this permit;
 - (4) The Record Keeping and Reporting Requirements in Section C (Monitoring Data Availability, General Record Keeping Requirements, and General Reporting

Requirements) and in Section D of this permit; and

- (5) A Compliance Response Plan (CRP) for each compliance monitoring condition of this permit. CRP's shall be submitted to IDEM, OAM upon request and shall be subject to review and approval by IDEM, OAM. The CRP shall be prepared within ninety (90) days after issuance of this permit by the Permittee and maintained on site, and is comprised of :
 - (A) Response steps that will be implemented in the event that compliance related information indicates that a response step is needed pursuant to the requirements of Section D of this permit; and
 - (B) A time schedule for taking such response steps including a schedule for devising additional response steps for situations that may not have been predicted.
- (b) For each compliance monitoring condition of this permit, appropriate response steps shall be taken when indicated by the provisions of that compliance monitoring condition. Failure to perform the actions detailed in the compliance monitoring conditions or failure to take the response steps within the time prescribed in the Compliance Response Plan, shall constitute a violation of the permit unless taking the response steps set forth in the Compliance Response Plan would be unreasonable.
- (c) After investigating the reason for the excursion, the Permittee is excused from taking further response steps for any of the following reasons:
 - (1) The monitoring equipment malfunctioned, giving a false reading. This shall be an excuse from taking further response steps providing that prompt action was taken to correct the monitoring equipment.
 - (2) The Permittee has determined that the compliance monitoring parameters established in the permit conditions are technically inappropriate, has previously submitted a request for an administrative amendment to the permit, and such request has not been denied or;
 - (3) An automatic measurement was taken when the process was not operating; or
 - (4) The process has already returned to operating within "normal" parameters and no response steps are required.
- (d) Records shall be kept of all instances in which the compliance related information was not met and of all response steps taken.

C.12 Actions Related to Noncompliance Demonstrated by a Stack Test

- (a) When the results of a stack test performed in conformance with Section C - Performance Testing, of this permit exceed the level specified in any condition of this permit, the Permittee shall take appropriate corrective actions. The Permittee shall submit a description of these corrective actions to IDEM, OAM, within thirty (30) days of receipt of the test results. The Permittee shall take appropriate action to minimize emissions from the affected emissions unit while the corrective actions are being implemented. IDEM, OAM shall notify the Permittee within thirty (30) days, if the corrective actions taken are deficient. The Permittee shall submit a description of additional corrective actions taken to IDEM, OAM within thirty (30) days of receipt of the notice of deficiency. IDEM, OAM reserves the authority to use enforcement activities to

resolve noncompliant stack tests.

- (b) A retest to demonstrate compliance shall be performed within one hundred twenty (120) days of receipt of the original test results. Should the Permittee demonstrate to IDEM, OAM that retesting in one-hundred and twenty (120) days is not practicable, IDEM, OAM may extend the retesting deadline. Failure of the second test to demonstrate compliance with the appropriate permit conditions may be grounds for immediate revocation of the permit to operate the affected emissions unit.

The documents submitted pursuant to this condition do not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1.

Record Keeping and Reporting Requirements

C.13 Malfunctions Report [326 IAC 1-6-2]

Pursuant to 326 IAC 1-6-2 (Records; Notice of Malfunction):

- (a) A record of all malfunctions, including startups or shutdowns of any facility or emission control equipment, which result in violations of applicable air pollution control regulations or applicable emission limitations shall be kept and retained for a period of three (3) years and shall be made available to the Indiana Department of Environmental Management (IDEM), Office of Air Management (OAM) or appointed representative upon request.
- (b) When a malfunction of any facility or emission control equipment occurs which lasts more than one (1) hour, said condition shall be reported to OAM, using the Malfunction Report Forms (2 pages). Notification shall be made by telephone or facsimile, as soon as practicable, but in no event later than four (4) daytime business hours after the beginning of said occurrence.
- (c) Failure to report a malfunction of any emission control equipment shall constitute a violation of 326 IAC 1-6, and any other applicable rules. Information of the scope and expected duration of the malfunction shall be provided, including the items specified in 326 IAC 1-6-2(a)(1) through (6).
- (d) Malfunction is defined as any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner. [326 IAC 1-2-39]

C.14 Monitoring Data Availability [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) With the exception of performance tests conducted in accordance with Section C-Performance Testing, all observations, sampling, maintenance procedures, and record keeping, required as a condition of this permit shall be performed at all times the equipment is operating at normal representative conditions.
- (b) As an alternative to the observations, sampling, maintenance procedures, and record keeping of subsection (a) above, when the equipment listed in Section D of this permit is not operating, the Permittee shall either record the fact that the equipment is shut down or perform the observations, sampling, maintenance procedures, and record keeping that would otherwise be required by this permit.

- (c) If the equipment is operating but abnormal conditions prevail, additional observations and sampling should be taken with a record made of the nature of the abnormality.
- (d) If for reasons beyond its control, the operator fails to make required observations, sampling, maintenance procedures, or record keeping, reasons for this must be recorded.
- (e) At its discretion, IDEM may excuse such failure providing adequate justification is documented and such failures do not exceed five percent (5%) of the operating time in any quarter.
- (f) Temporary, unscheduled unavailability of staff qualified to perform the required observations, sampling, maintenance procedures, or record keeping shall be considered a valid reason for failure to perform the requirements stated in (a) above.

C.15 General Record Keeping Requirements [326 IAC 2-6.1-2]

- (a) Records of all required monitoring data and support information shall be retained for a period of at least five (5) years from the date of monitoring sample, measurement, report, or application. These records shall be kept at the source location for a minimum of three (3) years and available upon the request of an IDEM, OAM, representative. The records may be stored elsewhere for the remaining two (2) years as long as they are available upon request. If the Commissioner makes a written request for records to the Permittee, the Permittee shall furnish the records to the Commissioner within a reasonable time.
- (b) Records of required monitoring information shall include, where applicable:
 - (1) The date, place, and time of sampling or measurements;
 - (2) The dates analyses were performed;
 - (3) The company or entity performing the analyses;
 - (4) The analytic techniques or methods used;
 - (5) The results of such analyses; and
 - (6) The operating conditions existing at the time of sampling or measurement.
- (c) Support information shall include, where applicable:
 - (1) Copies of all reports required by this permit;
 - (2) All original strip chart recordings for continuous monitoring instrumentation;
 - (3) All calibration and maintenance records;
 - (4) Records of preventive maintenance shall be sufficient to demonstrate that failure to implement the Preventive Maintenance Plan did not cause or contribute to a violation of any limitation on emissions or potential to emit. To be relied upon subsequent to any such violation, these records may include, but are not limited to: work orders, parts inventories, and operator's standard operating

procedures. Records of response steps taken shall indicate whether the response steps were performed in accordance with the Compliance Response Plan required by Section C - Compliance Monitoring Plan - Failure to take Response Steps, of this permit, and whether a deviation from a permit condition was reported. All records shall briefly describe what maintenance and response steps were taken and indicate who performed the tasks.

- (d) All record keeping requirements not already legally required shall be implemented when operation begins.

C.16 General Reporting Requirements [326 IAC 2-1.1-11] [326 IAC 2-6.1-2] [IC 13-14-1-13]

- (a) To affirm that the source has met all the compliance monitoring requirements stated in this permit the source shall submit a Quarterly Compliance Monitoring Report. Any deviation from the requirements and the date(s) of each deviation must be reported. The Compliance Monitoring Report shall include the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (b) The report required in (a) of this condition and reports required by conditions in Section D of this permit shall be submitted to:

Indiana Department of Environmental Management
Compliance Data Section, Office of Air Management
100 North Senate Avenue, P. O. Box 6015
Indianapolis, Indiana 46206-6015
- (c) Unless otherwise specified in this permit, any notice, report, or other submission required by this permit shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.
- (d) Unless otherwise specified in this permit, any quarterly report shall be submitted within thirty (30) days of the end of the reporting period. The report does not require the certification by the "authorized individual" as defined by 326 IAC 2-1.1-1(1).
- (e) All instances of deviations must be clearly identified in such reports. A reportable deviation is an exceedance of a permit limitation or a failure to comply with a requirement of the permit or a rule. It does not include:
 - (1) An excursion from compliance monitoring parameters as identified in Section D of this permit unless tied to an applicable rule or limit; or
 - (2) A malfunction as described in 326 IAC 1-6-2; or
 - (3) Failure to implement elements of the Preventive Maintenance Plan unless lack of maintenance has caused or contributed to a deviation.
 - (4) Failure to make or record information required by the compliance monitoring provisions of Section D unless such failure exceeds 5% of the required data in any calendar quarter.

A Permittee's failure to take the appropriate response step when an excursion of a compliance monitoring parameter has occurred or failure to monitor or record the required compliance monitoring is a deviation.

- (f) Any corrective actions or response steps taken as a result of each deviation must be clearly identified in such reports.
- (g) The first report shall cover the period commencing on the date of issuance of this permit and ending on the last day of the reporting period.

C.17 Annual Notification [326 IAC 2-6.1-5(a)(5)]

- (a) Annual notification shall be submitted to the Office of Air Management stating whether or not the source is in operation and in compliance with the terms and conditions contained in this permit.
- (b) Noncompliance with any condition must be specifically identified. If there are any permit conditions or requirements for which the source is not in compliance at any time during the year, the Permittee must provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be, achieved. The notification must be signed by an authorized individual.
- (c) The annual notice shall cover the time period from January 1 to December 31 of the previous year, and shall be submitted in the format attached no later than March 1 of each year to:

Compliance Data Section, Office of Air Management
Indiana Department of Environmental Management
100 North Senate Avenue, P.O. Box 6015
Indianapolis, IN 46206-6015
- (d) The notification shall be considered timely if the date postmarked on the envelope or certified mail receipt, or affixed by the shipper on the private shipping receipt, is on or before the date it is due. If the document is submitted by any other means, it shall be considered timely if received by IDEM, OAM, on or before the date it is due.

SECTION D.1

EMISSIONS UNIT OPERATION CONDITIONS

- (a) One (1) decorative chromium electroplating tank, identified as tank no. 7, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using a wetting agent as control, and exhausting to one (1) stack, identified as S-1.
- (b) One (1) bright acid copper tank, identified as tank no. 1, with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (c) Two nitric acid tanks, identified as tank no. 2 and 2', each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (d) One (1) nickel plating tank, identified as tank no. 3, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (e) One (1) brass plating tank, identified as tank no.4, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (f) Two(2) cyanide copper tanks, identified as tank no.5 and no. 6, each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no control, and exhausting inside the building.
- (g) One holding tank, identified as tank no. 8, using no controls, and exhausting inside the building.
- (h) Four (4) cleaning tanks, identified as tank no. 10, no. 11, no. 12 and no. 13, each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.

Emission Limitations and Standards

D.1.1 General Provisions Relating to HAPs [326 IAC 20-1-1] [40 CFR Part 63, Subpart A]

The provisions of 40 CFR Part 63, Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR Part 63, Subpart N.

D.1.2 Chromium Electroplating and Anodizing NESHAP [326 IAC 20-8-1][40 CFR Part 63, Subpart N]

The provisions of 40 CFR 63, Subpart N - National Emission Standards for Chromium Emissions from Hard and Decorative Chromium Electroplating and Chromium Anodizing Tanks, which are incorporated by reference as 326 IAC 20-8-1, apply to tank no. 7. A copy of this rule is attached.

D.1.3 Chromium Emissions Limitation [40 CFR 63.342(c)] [40 CFR 63.343(a)(1)&(2)]

- (a) The emission limitations in this condition apply only during tank operation, and also apply during periods of startup and shutdown as these are routine occurrences for tanks subject to 326 IAC 20-8-1. The emission limitations do not apply during periods of malfunction.

- (b) During tank operation, the Permittee shall control chromium emissions discharged to the atmosphere from tank no. 7 by:
 - (1) Not allowing the concentration of total chromium in the exhaust gas stream discharged to the atmosphere to exceed one-hundredth milligrams of total chromium per dry standard cubic meter of ventilation air (0.01 mg/dscm) [equivalent to four and four-tenths times ten raised to the power of negative six grains of total chromium per dry standard cubic foot of ventilation air (4.4×10^{-6} gr/dscf)]; or
 - (2) Not allowing the surface tension of the anodizing bath contained within the tank to exceed forty-five dynes per centimeter (45 dynes/cm) [equivalent to three and one-tenth times ten raised to the power of negative three pound-force per foot (3.1×10^{-3} lb_f/ft)] at any time during operation of tank no. 7 when a chemical fume suppressant containing a wetting agent is used. This facility is subject to 40 CFR Part 63, Subpart N, which is incorporated by reference as 326 IAC 20-8-1. A copy of this rule is attached.

D.1.4 Work Practice Standards [40 CFR 63.342(f)]

The following work practice standards apply to tank no. 7:

- (a) At all times, including periods of startup, shutdown, malfunction and excess emissions, the Permittee shall operate and maintain tank no. 7, including the wetting agent and monitoring equipment, in a manner consistent with good air pollution control practices, consistent with the Operation and Maintenance Plan (OMP) required by Condition D.1.6.
- (b) Malfunctions and excess emissions shall be corrected as soon as practicable after their occurrence in accordance with the OMP required by Condition D.1.6.
- (c) These operation and maintenance requirements are enforceable independent of emissions limitations or other requirements in this section.
- (d) Determination of whether acceptable operation and maintenance procedures are being used will be based on information available to IDEM, OAM, which may include, but is not limited to, monitoring results; review of the OMP, procedures, and records; and inspection of the source.
- (e) Based on the results of a determination made under paragraph (d) of this condition, IDEM, OAM may require that the Permittee make changes to the OMP required by Condition D.1.6. Revisions may be required if IDEM, OAM finds that the plan:
 - (1) Does not address a malfunction or period of excess emissions that has occurred;
 - (2) Fails to provide for the operation of tank no. 7, the wetting agent, or the process monitoring equipment during a malfunction or period of excess emissions in a manner consistent with good air pollution control practices; or
 - (3) Does not provide adequate procedures for correcting malfunctioning process equipment, air pollution control techniques, monitoring equipment or other causes of excess emissions as quickly as practicable.

D.1.5 Preventive Maintenance Plan [326 IAC 1-6-3]

A Preventive Maintenance Plan (PMP), in accordance with Section B.12 - Preventive

Maintenance Plan, of this permit, is required for tank no. 7.

D.1.6 Operation and Maintenance Plan [40 CFR 63.342(f)(3)]

- (a) The Permittee shall prepare an Operation and Maintenance Plan (OMP) to be implemented no later than the startup date of tank no.7. The OMP shall specify the operation and maintenance criteria for tank no. 7, the wetting agent and monitoring equipment and shall include the following elements:
 - (1) Manufacturers recommendations for maintenance of the monitoring equipment used to measure surface tension;
 - (2) Documentation of the operation and maintenance criteria for the tank, wetting agent, and monitoring equipment;
 - (3) Procedures to be followed to ensure that equipment or process malfunctions due to poor maintenance or other preventable conditions do not occur;
 - (4) A systematic procedure for identifying malfunctions of the tank, wetting agent , and monitoring equipment; and for implementing corrective actions to address such malfunctions;
- (b) The Permittee may use applicable standard operating procedures (SOP) manuals, Occupational Safety and Health Administration (OSHA) plans, or other existing plans such as the PMP required in Condition D.1.5, as the OMP, provided the alternative plans meet the above listed criteria in Condition D.1.6(a).
- (c) If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction or period of excess emissions at the time the plan is initially developed, the Permittee shall revise the OMP within forty-five (45) days after such an event occurs. The revised plan shall include procedures for operating and maintaining tank no.7, the air pollution control device, the add-on air pollution control device and the monitoring equipment, during similar malfunction or period of excess emissions events, and a program for corrective action for such events.
- (d) If actions taken by the Permittee during periods of malfunction or period of excess emissions are inconsistent with the procedures specified in the OMP, the Permittee shall record the actions taken for that event and shall report by phone such actions within two (2) working days after commencing actions inconsistent with the plan. This report shall be followed by a letter within seven (7) working days after the end of the event, unless the Permittee makes alternative reporting arrangements, in advance, with IDEM, OAM.
- (e) The Permittee shall keep the written OMP on record after it is developed to be made available, upon request, by IDEM, OAM for the life of tank no. 7 or until the tank is no longer subject to the provisions of 40 CFR 63.340. In addition, if the OMP is revised, the Permittee shall keep previous versions of the OMPs on record to be made available for inspection, upon request by IDEM, OAM for a period of five (5) years after each revision to the plan. If the OMP fails to address or inadequately addresses an event that meets the characteristics of a malfunction at the time the plan is initially developed, the Permittee shall revise the OMP within forty five (45) days after such an event occurs.
- (f) Recordkeeping associated with the OMP is identified in Condition D.1.7. Reporting associated with the OMP is identified in Condition D.1.8.

Compliance Determination Requirements

D.1.7 Performance Testing [326 IAC 2-1.1-11] [40 CFR 63.343(b)(2)] [40 CFR 63.7] [40 CFR 63.344]

- (a) The Permittee is not required to further test tank no.7 by this permit. However, the IDEM may require testing when necessary to determine if the tank is in compliance. If testing is required by the IDEM, compliance with the limits specified in Condition D.1.3 shall be determined by a performance test conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.
- (b) Any change, modification, or reconstruction of tank no.7, the wetting agent or monitoring equipment may require additional performance testing conducted in accordance with 40 CFR 63.344 and Section C - Performance Testing.

D.1.8 Monitoring to Demonstrate Continuous Compliance[326 IAC 2-1.1-11] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343 (c)]

- (a) The Permittee shall monitor the surface tension of the electroplating bath in tank no. 7. Operation of the tank at a surface tension of greater than 45 dynes per centimeter shall constitute noncompliance with the standards. The surface tension of the tank when in operation shall be monitored according to the following schedule:
 - (1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:
 - (A) The surface tension shall be measured once a day of operation provided there are no more than 4 hours of operation of the tank between each measurement with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.
 - (B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once each day of operation provided there are no more than 4 hours of tank operation between measurements for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once a week of tank operation provided there are no more than 8 hours of operation between each measurement. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once a month of tank operation on an ongoing basis, provided there are no more than 40 hours of operation between each measurement until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.
 - (C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once a month and an exceedance occurs, subsequent monitoring would take place once each day of operation provided there are no more than 4 hours of tank operation between measurements. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once a week of tank operation

provided there are no more than 8 hours of operation between each measurement. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once a month provided there are no more than 40 hours of operation between each measurement.

- (2) Once a bath solution is drained from tank no. 7 and a new solution added, the original monitoring schedule of once each day of operation must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts is considered operating time.

Record Keeping and Reporting Requirement

D.1.9 Record Keeping Requirements [40 CFR 63.346]

The Permittee shall maintain records to document compliance with Conditions D.1.3, D.1.4 and D.1.6 using the forms provided with this permit. These records shall be maintained in accordance with Section C - General Record Keeping Requirements of this permit and include a minimum of the following:

- (a) Inspection records for the wetting agent system and monitoring equipment to document that the inspection and maintenance required by Conditions D.1.7 and D.1.8 have taken place. The record can take the form of a checklist and should identify the following:
 - (1) The device inspected;
 - (2) The date of inspection;
 - (3) A brief description of the working condition of the device during the inspection, including any deficiencies found; and
 - (4) Any actions taken to correct deficiencies found during the inspection, including the date(s) such actions were taken.
- (b) Records of all maintenance performed on tank no. 7, the wetting agent and monitoring equipment.
- (c) Records of the occurrence, duration, and cause (if known) of each malfunction of tank no.7, the wetting agent and monitoring equipment.
- (d) Records of the occurrence, duration, and cause (if known) of each period of excess emissions of tank no.7 , the wetting agent and monitoring equipment as indicated by monitoring data collected in accordance with this condition.
- (e) Records of actions taken during periods of malfunction or excess emissions when such actions are inconsistent with the OMP.

- (f) Other records, which may take the form of checklists, necessary to demonstrate consistency with the provisions of the OMP.
- (g) Test reports documenting results of all performance tests.
- (h) All measurements as may be necessary to determine the conditions of performance tests, including measurements necessary to determine compliance.
- (i) Records of monitoring data required by 40 CFR 63.343(c) that are used to demonstrate compliance with the standard including the date and time the data are collected. If a tensiometer is used to measure surface tension, a copy of ASTM Method D 1331-89, "Standard Test Methods for Surface and Interfacial Tension of Solutions of Surface Active Agents," must be included with the log book containing surface tension measurements.
- (j) The total process operating time, as defined in Condition D.1.8(b), of each tank, during the reporting period.
- (k) Records of the date and time that fume suppressants were added to the electroplating bath, and the amount and type of fume suppressants added.

D.1.10 Reporting Requirements [40 CFR 63.345 & 63.347]

The notifications and reports required in this section shall be submitted to IDEM, OAM using the address specified in Section C - General Reporting Requirements.

- (a) Notifications:
 - (1) Initial Notifications
The Permittee shall notify IDEM, OAM in writing that the source is subject to 40 CFR Part 63, Subpart N. The notification shall be submitted no later than one hundred eighty (180) days after the compliance date and shall contain the information listed in 40 CFR 63.347(c)(1).
 - (2) A Notification of Compliance Status (NCS) is required each time that the facility becomes subject to the requirements of 40 CFR Part 63 Subpart N.
 - (A) The NCS shall be submitted to IDEM, OAM, and shall list, for each tank, the information identified in 40 CFR 63.347(e)(2).
 - (B) The NCS for tank no.7 shall be submitted to IDEM, OAM no later than 30 days after the startup date.
 - (3) Notification of Construction or Reconstruction
Pursuant to 40 CFR 63.345(b)(1), the Permittee may not construct a new tank subject to 40 CFR 63, Subpart N (including non-affected tanks defined in 40 CFR 63.344(e)) without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAM. In addition, the Permittee may not

change, modify, or reconstruct tank no.7 without submitting a Notification of Construction or Reconstruction (NCR) to IDEM, OAM.

- (A) The NCR shall contain the information identified in 40 CFR 63.345(b)(2) and (3).
- (B) A change, modification, or reconstruction of this facility includes any change in the air pollution control techniques, the addition of add-on control devices, or the construction of duct work for the purpose of controlling both existing tanks and non-affected facilities by a common control technique or device.
- (C) A complete application to construct new chromium electroplating or chromium anodizing tanks serves as this notification. Likewise, the complete application to modify or reconstruct tank no.7 serves as this notification.
- (D) Pursuant to 326 IAC 2-1.1-2(a), permission must be received from IDEM, OAM before construction, modification, or reconstruction may commence.

- (b) **Performance Test Results**
The Permittee shall document results from many future performance tests in a complete test report that contains the information required in 40 CFR 344(a).

The Permittee shall submit reports of performance test results as part of the Notification of Compliance Status, described in 40 CFR 63.347(e), no later than forty-five (45) days following the completion of the performance test.

- (c) **Ongoing Compliance Status Report**
The Permittee shall prepare summary reports to document the ongoing compliance status of tank no.7 using the Ongoing Compliance Status Report form provided with this permit. This report shall contain the information specified in 40 CFR 63.347(g)(3).

Because tank no.7 is located at site that is an area source of hazardous air pollutants (HAPs), the Ongoing Compliance Status Report shall be retained on site and made available to IDEM, OAM upon request.

- (1) The Ongoing Compliance Status Report shall be completed according to the following schedule except as provided in paragraphs (c)(2).
 - (A) The first report shall cover the period from the start-up date of the emissions units to December 31 of the year in which the emissions units begin operation.
 - (B) Following the first year of reporting, the report shall be completed on a calendar year basis with the reporting period covering from January 1 to December 31.
- (2) If either of the following conditions are met, semiannual reports shall be prepared and submitted to IDEM, OAM:

- (A) The total duration of excess emissions (as indicated by the monitoring data collected by the Permittee in accordance with 40 CFR 63.343(c)) is one percent (1%) or greater of the total operating time as defined in Condition D.1.8(b) for the reporting period; or
- (B) The total duration of malfunctions of the add-on air pollution control device and monitoring equipment is five percent (5%) or greater of the total operating time as defined in Condition D.1.8(b).

Once the Permittee reports an exceedance as defined above, Ongoing Compliance Status Reports shall be submitted semiannually until a request to reduce reporting frequency in accordance with 40 CFR 63.347(g)(2) is approved.

- (3) IDEM, OAM may determine on a case-by-case basis that the summary report shall be completed more frequently and submitted, or that the annual report shall be submitted instead of being retained on site, if these measures are necessary to accurately assess the compliance status of the source.

SECTION D.2

EMISSIONS UNIT OPERATION CONDITIONS

- (a) Two(2) shot blasters, identified as SB-1 and SB-2, each with a maximum shot blasting capacity of one hundred and twenty-five (125) pounds of antique car parts per hour, and each exhausting to a baghouse.
- (b) One (1) cold cleaner, identified as CC-1, with a maximum usage of 3.33 gallons per month, and using a liquid (H₂O) barrier to control VOC emissions.

Emission Limitations and Standards

D.2.1 Particulate Matter (PM) [326 IAC 6-3]

Pursuant to 326 IAC 6-3 (Process Operations), the allowable PM emission rate from each of the shot blasters shall not exceed 0.6398 pounds per hour respectively when operating at a process weight rate of 2950 pounds per hour.

The pounds per hour limitation was calculated with the following equation:

Interpolation and extrapolation of the data for the process weight rate up to 60,000 pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour; and} \\ P = \text{process weight rate in tons per}$$

D.2.2 Cold Cleaner Operation [326 IAC 8-3-2]

The owner or operator of a cold cleaning facility shall:

- (a) equip the cleaner with a cover;
- (b) equip the cleaner with a facility for draining cleaned parts;
- (c) close the degreaser cover whenever parts are not being handled in the cleaner;
- (d) drain cleaned parts for at least fifteen(15) seconds or until dripping ceases;
- (e) provide a permanent, conspicuous label summarizing the operating requirements;
- (f) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in a such a manner that greater than twenty percent(20%) of the waste solvent (by weight) can evaporate into the atmosphere.

D.2.3 Cold Cleaner Degreaser Operation and Control [326 IAC 8-3-5]

- (a) The owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:
 - (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one(1) hand if:
 - (A) the solvent volatility is greater than two(2) Kilo Pascals (fifteen (15) millimeters of mercury or three-tenths(0.3) pounds per square inch) measured at thirty-eight degrees Celsius(38 °C)(one hundred degrees Fahrenheit (100 °F);
 - (B) the solvent is agitated; or
 - (C) the solvent is heated.

- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is greater than four and three-tenths (4.3) Kilo Pascals (thirty-two (32) millimeters of mercury or six-tenths(0.6) pounds per square inch) measured at thirty-eight degrees Celsius(38 °C)(one hundred degrees Fahrenheit (100 °F), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type can not fit into the cleaning system.
 - (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one(1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) Kilo Pascals (thirty-two (32) millimeters of mercury or six-tenths(0.6) pounds per square inch) measured at thirty-eight degrees Celsius(38 °C)(one hundred degrees Fahrenheit (100 °F), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9 °C)(one hundred twenty degrees Fahrenheit(120 °F):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths(0.75) or greater.
 - (B) A water cover when a solvent used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the US EPA as a SIP revision.
- (b) The owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent(20%) of the waste solvent by weight could evaporate.

Compliance Determination Requirements [326 IAC 2-5.1-3(e)(2)] [326 IAC 2-6.1-5(a)(2)]

D.2.4 Testing Requirements [326 IAC 2-1.1-11]

The Permittee is not required to test this emissions unit by this permit. However, IDEM may require compliance testing when necessary to determine if the emissions unit is in compliance. If testing is required by IDEM, compliance with the Particulate Matter (PM) limit specified in Condition D.1.1 shall be determined by a performance test conducted in accordance with Section C - Performance Testing.

D.2.5 Particulate Matter (PM)

- (a) The baghouses/baghouse for PM control shall be in operation and control emissions from the shot blasters/blaster at all times the shot blasters/blaster are/is in operation..

Record Keeping and Reporting Requirements

D.2.6 Record Keeping and Reporting Requirements

There are no record keeping or reporting requirements for these facilities.

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**MINOR SOURCE OPERATING PERMIT
ANNUAL NOTIFICATION**

This form should be used to comply with the notification requirements under 326 IAC 2-6.1-5(a)(5).

Company Name:	<i>J & P Custom Plating, Inc.</i>
Address:	807 N Meridian, Portland, Indiana 47371
City:	Portland
Phone #:	(219) 726-9696
MSOP #:	075-11672-00028

I hereby certify that J & P Custom Plating, Inc is ☒ still in operation.
☒ no longer in operation.

I hereby certify that J & P Custom Plating, Inc is
☒ in compliance with the requirements of MSOP 075-11672-00028.
☒ not in compliance with the requirements of MSOP 075-11672-00028.

Authorized Individual (typed):
Title:
Signature:
Date:

If there are any conditions or requirements for which the source is not in compliance, provide a narrative description of how the source did or will achieve compliance and the date compliance was, or will be achieved.

Noncompliance:

MALFUNCTION REPORT
INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
FAX NUMBER - 317 233-5967

**This form should only be used to report malfunctions applicable to Rule 326 IAC 1-6
and to qualify for the exemption under 326 IAC 1-6-4.**

THIS FACILITY MEETS THE APPLICABILITY REQUIREMENTS BECAUSE IT HAS POTENTIAL TO EMIT 25 TONS/YEAR PARTICULATE MATTER ? _____, 25 TONS/YEAR SULFUR DIOXIDE ? _____, 25 TONS/YEAR NITROGEN OXIDES ? _____, 25 TONS/YEAR VOC ? _____, 25 TONS/YEAR HYDROGEN SULFIDE ? _____, 25 TONS/YEAR TOTAL REDUCED SULFUR ? _____, 25 TONS/YEAR REDUCED SULFUR COMPOUNDS ? _____, 25 TONS/YEAR FLUORIDES ? _____, 100 TONS/YEAR CARBON MONOXIDE ? _____, 10 TONS/YEAR ANY SINGLE HAZARDOUS AIR POLLUTANT ? _____, 25 TONS/YEAR ANY COMBINATION HAZARDOUS AIR POLLUTANT ? _____, 1 TON/YEAR LEAD OR LEAD COMPOUNDS MEASURED AS ELEMENTAL LEAD ? _____, OR IS A SOURCE LISTED UNDER 326 IAC 2-5.1-3(2) ? _____. EMISSIONS FROM MALFUNCTIONING CONTROL EQUIPMENT OR PROCESS EQUIPMENT CAUSED EMISSIONS IN EXCESS OF APPLICABLE LIMITATION _____.

THIS MALFUNCTION RESULTED IN A VIOLATION OF: 326 IAC _____ OR, PERMIT CONDITION # _____ AND/OR PERMIT LIMIT OF _____

THIS INCIDENT MEETS THE DEFINITION OF 'MALFUNCTION' AS LISTED ON REVERSE SIDE ? Y N

THIS MALFUNCTION IS OR WILL BE LONGER THAN THE ONE (1) HOUR REPORTING REQUIREMENT ? Y N

COMPANY: _____ PHONE NO. (_____) _____

LOCATION: (CITY AND COUNTY) _____

PERMIT NO. _____ AFS PLANT ID: _____ AFS POINT ID: _____

INSP: _____

CONTROL/PROCESS DEVICE WHICH MALFUNCTIONED AND REASON: _____

DATE/TIME MALFUNCTION STARTED: ____/____/19____ _____ AM / PM

ESTIMATED HOURS OF OPERATION WITH MALFUNCTION CONDITION: _____

DATE/TIME CONTROL EQUIPMENT BACK-IN SERVICE ____/____/19____ _____ AM/PM

TYPE OF POLLUTANTS EMITTED: TSP, PM-10, SO₂, VOC, OTHER: _____

ESTIMATED AMOUNT OF POLLUTANT EMITTED DURING MALFUNCTION: _____

MEASURES TAKEN TO MINIMIZE EMISSIONS: _____

REASONS WHY FACILITY CANNOT BE SHUTDOWN DURING REPAIRS:

CONTINUED OPERATION REQUIRED TO PROVIDE ESSENTIAL* SERVICES: _____

CONTINUED OPERATION NECESSARY TO PREVENT INJURY TO PERSONS: _____

CONTINUED OPERATION NECESSARY TO PREVENT SEVERE DAMAGE TO EQUIPMENT: _____

INTERIM CONTROL MEASURES: (IF APPLICABLE) _____

MALFUNCTION REPORTED BY: _____ TITLE: _____
(SIGNATURE IF FAXED)

MALFUNCTION RECORDED BY: _____ DATE: _____ TIME: _____

*SEE PAGE 2

**Please note - This form should only be used to report malfunctions
applicable to Rule 326 IAC 1-6 and to qualify for
the exemption under 326 IAC 1-6-4.**

326 IAC 1-6-1 Applicability of rule

Sec. 1. This rule applies to the owner or operator of any facility required to obtain a permit under 326 IAC 2-5.1 or 326 IAC 2-6.1.

326 IAC 1-2-39 "Malfunction" definition

Sec. 39. Any sudden, unavoidable failure of any air pollution control equipment, process, or combustion or process equipment to operate in a normal and usual manner.

***Essential services** are interpreted to mean those operations, such as, the providing of electricity by power plants. Continued operation solely for the economic benefit of the owner or operator shall not be sufficient reason why a facility cannot be shutdown during a control equipment shutdown.

If this item is checked on the front, please explain rationale:

**INDIANA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF AIR MANAGEMENT
COMPLIANCE DATA SECTION**

**MINOR SOURCE OPERATING PERMIT
CHROMIUM ELECTROPLATING NESHAP
ONGOING COMPLIANCE STATUS REPORT**

Source Name: J & P Custom Plating, Inc.
Source Address: 807 N Meridian, Portland, Indiana 47371
Mailing Address: P. O. Box 16, Portland, Indiana 47371
Minor Source Operating Permit No.: 075-11672-00028
Tank ID #: _____
Type of process: Decorative
Monitoring Parameter: Surface tension of the electroplating bath
Parameter Value: 45 dynes per centimeter
Limits: Total chromium concentration may not exceed 0.01 mg/dscm if the chromium electroplating bath does not meet 45 dynes per centimeter

This form is to be used to report compliance for the Chromium Electroplating NESHAP only.
The frequency for completing this report may be altered by the IDEM, OAM, Compliance Branch.

submit this report no later than 30 days after the end of the reporting period.

This form consists of 2 pages

Page 1 of 2

BEGINNING AND ENDING DATES OF THE REPORTING PERIOD:
TOTAL OPERATING TIME OF THE TANK DURING THE REPORTING PERIOD:

MAJOR AND AREA SOURCES: CHECK ONE	
9	NO DEVIATIONS OF THE MONITORING PARAMETER ASSOCIATED WITH THIS TANK FROM THE COMPLIANT VALUE OR RANGE OF VALUES OCCURRED DURING THIS REPORTING PERIOD.
9	THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES DURING THIS REPORTING PERIOD (THUS INDICATING THE EMISSION LIMITATION MAY HAVE BEEN EXCEEDED, WHICH COULD RESULT IN MORE FREQUENT REPORTING).

AREA (I.E., NON-MAJOR) SOURCES OF HAP ONLY: IF DEVIATIONS OCCURRED, LIST THE AMOUNT OF TANK OPERATING TIME EACH MONTH THAT MONITORING RECORDS SHOW THE MONITORING PARAMETER DEVIATED FROM THE COMPLIANT VALUE OR RANGE OF VALUES.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC

HARD CHROME TANKS / MAXIMUM RECTIFIER CAPACITY LIMITED IN ACCORDANCE WITH 40 CFR 63.342(c)(2) ONLY: LIST THE ACTUAL AMPERE-HOURS CONSUMED (BASED ON AN AMP-HR METER) BY THE INDIVIDUAL TANK.			
JAN	APR	JUL	OCT
FEB	MAY	AUG	NOV
MAR	JUN	SEP	DEC

CHROMIUM ELECTROPLATING NESHAP ONGOING COMPLIANCE STATUS REPORT

ATTACH A SEPARATE PAGE IF NEEDED

Page 2 of 2

IF THE OPERATION AND MAINTENANCE PLAN REQUIRED BY 40 CFR 63.342 (f)(3) WAS NOT FOLLOWED, PROVIDE AN EXPLANATION OF THE REASONS FOR NOT FOLLOWING THE PLAN AND DESCRIBE THE ACTIONS TAKEN FOR THAT EVENT:

DESCRIBE ANY CHANGES IN TANKS, RECTIFIERS, CONTROL DEVICES, MONITORING, ETC. SINCE THE LAST STATUS REPORT:

ADDITIONAL COMMENTS:

ALL SOURCES: CHECK ONE

9 I CERTIFY THAT THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE; AND, THAT THE INFORMATION CONTAINED IN THIS REPORT IS ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.

9 THE WORK PRACTICE STANDARDS IN 40 CFR 63.342(f) WERE NOT FOLLOWED IN ACCORDANCE WITH THE OPERATION AND MAINTENANCE PLAN ON FILE, AS EXPLAINED ABOVE AND/OR ON ATTACHED.

Submitted by: _____
Title/Position: _____
Signature: _____
Date: _____
Phone: _____

Attach a signed certification from a responsible official to complete this report.

Indiana Department of Environmental Management Office of Air Management

Addendum to the Technical Support Document for a Minor Source Operating Permit

Source Name: J&P Custom Plating, Inc.
 Source Location: 807 North Meridian Street, Portland, Indiana 47371
 County: Jay
 Construction Permit No.: 075-11672-00028
 SIC Code: 3471
 Permit Reviewer: Shanti Pahi/drp

On May 8, 2000, the Office of Air Management (OAM) had a notice published in the Commercial Review in Portland, Indiana, stating that J&P Custom Plating, Inc. had applied for a minor source operating permit for a decorative chrome electroplating plant. The notice also stated that OAM proposed to issue a permit for this installation and provided information on how the public could review the proposed permit and other documentation. Finally, the notice informed interested parties that there was a period of thirty (30) days to provide comments on whether or not this permit should be issued as proposed.

The following comments were submitted by one person from the public:

Fumes and odor coming into house
 Fans on top and side of building blow fumes and debris on cars and everything
 Leave overhead door open for fumes to get out
 Spray cans with lacquer anywhere in plant

This also needs checked out if you can't do anything maybe you can notify the right people.

Chemicals being dumped down drains no one picks up any
 old chemicals being stored in barrels inside by building
 Punching out coins with no safety devices or guards on machinery
 Chemicals running onto floor and ground rusting out bottom of building
 Fumes and odor coming into our homes

OAM Response: The Compliance Section intends on sending their inspectors to this plant to check out the concerns raised by this letter. If any actions are taken against this company related to this list of offenses, then the letter writer will be notified by OAM.

Upon further review, OAM has made the following changes (changes are noted using bold for new and strikeout for deletions):

The language for condition D.1.8 was changed:

D.1.8 Monitoring to Demonstrate Continuous Compliance[**326 IAC 2-1.1-11**] [326 IAC 2-6.1-5(a)(2)] [40 CFR 63.343 (c)]

(a) The Permittee shall monitor the surface tension of the electroplating bath in tank no. 7. Operation of the tank at a surface tension of greater than 45 dynes per centimeter shall constitute noncompliance with the standards. The surface tension of the tank when in operation shall be monitored according to the following schedule:

(1) The Permittee shall monitor the surface tension of the electroplating bath during tank operation according to the following schedule:

- (A) The surface tension shall be measured once **a day of operation provided there are no more than every 4 hours** ~~during-of~~ operation of the tank **between each measurement** with a stalagmometer or a tensiometer as specified in Method 306B, appendix A of this part.
 - (B) The time between monitoring can be increased if there have been no exceedances. The surface tension shall be measured once **each day of operation provided there are no more than every 4 hours** of tank operation **between measurements** for the first 40 hours of tank operation after the compliance date. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once **a week** ~~every 8 hours~~ of tank operation **provided there are no more than 8 hours of operation between each measurement**. Once there are no exceedances during 40 hours of tank operation, surface tension measurement may be conducted once **a month** ~~every 40 hours~~ of tank operation on an ongoing basis, **provided there are no more than 40 hours of operation between each measurement** until an exceedance occurs. The minimum frequency of monitoring allowed by this subpart is once every 40 hours of tank operation.
 - (C) Once an exceedance occurs as indicated through surface tension monitoring, the original monitoring schedule of once every 4 hours must be resumed. A subsequent decrease in frequency shall follow the schedule laid out in paragraph (B) above. For example, if a Permittee had been monitoring a tank once **a month** ~~every 40 hours~~ and an exceedance occurs, subsequent monitoring would take place once ~~every 4 hours~~ **each day of tank operation provided there are no more than 4 hours of tank operation between measurements**. Once an exceedance does not occur for 40 hours of tank operation, monitoring can occur once **a week** ~~every 8 hours~~ of tank operation **provided there are no more than 8 hours of operation between each measurement**. Once an exceedance does not occur for 40 hours of tank operation on this schedule, monitoring can occur once **a month** ~~every 40 hours of tank operation~~ **provided there are no more than 40 hours of operation between each measurement**.
- (2) Once a bath solution is drained from tank no. 7 and a new solution added, the original monitoring schedule of once **each day of operation** ~~every 4 hours~~ must be resumed, with a decrease in monitoring frequency allowed following the procedures in paragraphs (B) and (C) above.
- (b) Tank operation or operating time is defined as that time when a part is in the tank and there is a current running through the tank. If the amount of time that no part is in the tank is fifteen minutes or longer, that time is not considered operating time. Likewise, if the amount of time between placing parts in the tank (i.e., when no part is in the tank) is less than fifteen minutes, that time between plating the two parts is considered operating time.

J&P Custom Plating, Inc.
Portland, Indiana
Permit Reviewer:spahi/drp

Page 2 of 2
MSOP 075-11672-00028

**Indiana Department of Environmental Management
Office of Air Management**

Technical Support Document (TSD) for a ***Minor Source Operating Permit***

Source Background and Description

Source Name: *J & P Custom Plating, Inc.*
Source Location: *807 N Meridian, Portland, Indiana 47371*
County: *Jay*
SIC Code: *3471*
Operation Permit No.: *075-11672-00028*
Permit Reviewer: *Spahi*

The Office of Air Management (OAM) has reviewed an application from J & P Custom Plating, Inc relating to the operation of decorative chromium electroplating plant for antique car parts.

Permitted Emission Units and Pollution Control Equipment

The source consists of the following permitted emission units and pollution control devices:

- (a) One (1) decorative chromium electroplating tank, identified as tank no. 7, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using a wetting agent as control, and exhausting to one (1) stack, identified as S-1.
- (b) One (1) bright acid copper tank, identified as tank no. 1, with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (c) Two nitric acid tanks, identified as tank no. 2 and 2', each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (d) One (1) nickel plating tank, identified as tank no. 3, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (e) One (1) brass plating tank, identified as tank no.4, with a maximum plating capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (f) Two(2) cyanide copper tanks, identified as tank no.5 and no. 6, each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no control, and exhausting inside the building.

- (g) One holding tank, identified as tank no. 8, using no controls, and exhausting inside the building.
- (h) Four (4) cleaning tanks, identified as tank no. 10, no. 11, no. 12 and no. 13, each with a maximum cleaning capacity of twenty-one and one-half (21.5) square feet of antique car parts per hour, using no controls, and exhausting inside the building.
- (i) Two(2) shot blasters, identified as SB-1 and SB-2, each with a maximum shot blasting capacity of one hundred and twenty-five (125) pounds of antique car parts per hour, and each exhausting to a baghouse.
- (j) One (1) cold cleaner, identified as CC-1, with a maximum usage of 3.33 gallons per month, and using a liquid (H₂O) barrier to control VOC emissions.

Air Pollution Control Justification as an Integral Part of the Process

The company has submitted the following justification such that the baghouse be considered as an integral part of the shot blasting machines:

- (a) The primary purpose of the baghouse is to collect the shot blast media.
- (2) The cost of recovering shot blast media(glass media) reduces the amount of media bought by the company. The savings from installing the baghouses pays for the shot blasters in two (2) years.
- (3) The baghouses would have been installed even if their were no air regulations in place.

IDEM, OAM has evaluated the justifications and agreed that the baghouses will be considered as an integral part of the shot blasters. Therefore, the permitting level will be determined using the potential to emit after the baghouses. Operating conditions in the proposed permit will specify that this baghouse/baghouses shall operate at all times when the shot blaster/shot blasters is/are in operation.

Stack Summary

Stack ID	Operation	Height (feet)	Diameter (feet)	Flow Rate (acfm)	Temperature (°F)
S-1	Chromium Tank	14	2 x 2	Ambient	100

Enforcement Issue

There are no enforcement actions pending.

Recommendation

The staff recommends to the Commissioner that the operation be approved. This recommendation is based on the following facts and conditions:

Unless otherwise stated, information used in this review was derived from the application and additional information submitted by the applicant.

An application for the purposes of this review was received on December 16, 1999, with additional information received on March 15, 2000..

Emission Calculations

See Appendix A of this document for detailed emissions calculations from the space heaters (1 Page.)

See Appendix B of this document for detailed emissions calculations from the shot blasters and cold cleaner (1 Page.)

Chromium emissions(Single HAP) from the biggest source in Indiana is less than (10) tons per year and Briggs Industries, Inc. is a much smaller source in comparison. So no calculations were necessary for this source because the emissions from this source will be less than ten (10) tons per year

Potential To Emit

Pursuant to 326 IAC 2-1.1-1(16), Potential to Emit is defined as “the maximum capacity of a stationary source or emissions unit to emit any air pollutant under its physical and operational design. Any physical or operational limitation on the capacity of a source to emit an air pollutant, including air pollution control equipment and restrictions on hours of operation or type or amount of material combusted, stored, or processed shall be treated as part of its design if the limitation is enforceable by the U. S. EPA, the department, or the appropriate local air pollution control agency.”

Pollutant	Potential To Emit (tons/year)
PM	0.0862
PM-10	0.0862
SO ₂	0.0
VOC	0.135
CO	0.1
NO _x	0.2

HAP's	Potential To Emit (tons/year)
Chromium Compounds	Less than 10
TOTAL	Less than 25

- (a) The potential to emit (as defined in 326 IAC 2-7-1(29)) of any single HAP is less than ten (10) tons per year and the potential to emit (as defined in 326 IAC 2-7-1(29)) of a combination HAPs is less than twenty-five (25) tons per year. Therefore, the source is not subject to the provisions of 326 IAC 2-7.
- (b) The existing source is subject to 326 IAC 20-8 and but not subject to 326 IAC 2-5.5-1(b)(2) (registration) because the source uses hexavalent chromium for decorative coating instead of trivalent chromium and the source emits less than major source levels(see statement (a) above). Therefore, the source is subject to the provisions of 326 IAC 2-6.1-3(a).

Limited Potential to Emit

The table below summarizes the total potential to emit, reflecting all limits, of the significant emission units.

	Limited Potential to Emit (tons/year)						
Process/facility	PM	PM-10	SO ₂	VOC	CO	NO _x	HAPs
Space heaters	0.0	0.0	0.0	0.0	0.1	0.2	N/A
Cold Cleaners	0.0	0.0	0.0	0.135	0.0	0.0	N/A
Shot Blasters	0.0862	0.0862	0.0	0.0	0.0	0.0	N/A
Chromium Tank	0.0	0.0	0.0	0.0	0.0	0.0	< 10 tons
Total Emissions	0.0862	0.0862	0.0	0.135	0.1	0.2	< 25 tons

County Attainment Status

The source is located in Jay County.

Pollutant	Status
PM-10	Attainment
SO ₂	Attainment
NO ₂	Attainment
Ozone	Attainment
CO	Attainment
Lead	Attainment

- (a) Volatile organic compounds (VOC) and oxides of nitrogen (NO_x) are precursors for the formation of ozone. Therefore, VOC emissions are considered when evaluating the rule applicability relating to the ozone standards. Jay County has been designated as attainment or unclassifiable for ozone. Therefore, VOC and NO_x emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.
- (b) Jay County has been classified as attainment or unclassifiable for PM and CO. Therefore, these emissions were reviewed pursuant to the requirements for Prevention of Significant Deterioration (PSD), 326 IAC 2-2 and 40 CFR 52.21.

Source Status

Existing Source PSD, Part 70 or FESOP Definition (emissions after controls, based on 8,760 hours of operation per year at rated capacity and/ or as otherwise limited):

Pollutant	Emissions (ton/yr)
PM	0.0862
PM10	0.0862
SO ₂	0.0
VOC	0.135
CO	0.1
NO _x	0.2

- (a) This existing source is not a major stationary source because no attainment regulated pollutant is emitted at a rate of 250 tons per year or more, and it is not in one of the 28 listed source categories.
- (b) These emissions were based on the minor source operating permit (MSOP) application submitted by the company.

Part 70 Permit Determination

326 IAC 2-7 (Part 70 Permit Program)

This existing source is not subject to the Part 70 Permit requirements because the potential to emit (PTE) of:

- (a) each criteria pollutant is less than 100 tons per year,
- (b) a single hazardous air pollutant (HAP) is less than 10 tons per year, and
- (c) any combination of HAPs is less than 25 tons/year.

This is the first air approval issued to this source.

Federal Rule Applicability

- (a) There are no New Source Performance Standards (NSPS)(326 IAC 12 and 40 CFR Part 60) applicable to this source.
- (2) (i) The chromium electroplating operations are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 326 IAC 14, (40 CFR 63, Subpart N, and 326 IAC 20-1-1). Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20-1-1, the chromium electroplating operations are subject to the following

The provisions of 40 CFR 63 Subpart A - General Provisions, which are incorporated as 326 IAC 20-1-1, apply to the facility described in this section except when otherwise specified in 40 CFR 63 Subpart N.

The chromium electroplating operations are subject to the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 326 IAC 14, (40 CFR 63, Subpart N, and 326 IAC 20-1-1). Pursuant to 40 CFR 63, Subpart N, and 326 IAC 20-1-1, the chromium electroplating operations are subject to the following conditions:

- (1) The surface tension of the chromium electroplating bath contained with the tank shall not exceed forty-five (45) dynes per centimeter at any time during the operation of the tank if a chemical fume suppressant containing a wetting agent is used to demonstrate compliance.
- (2) Each time that surface tension monitoring exceeds forty-five (45) dynes per centimeter, the frequency of monitoring must revert back to every four (4) hours of tank operation. After forty (40) hours of monitoring tank operation every four (4) hours with no exceedances, surface tension measurement may be conducted once every eight (8) hours of tank

operation. Once there have been no exceedances during forty (40) hours of tank operation, surface tension measurement may be conducted once every forty (40) hours of tank operation on an ongoing basis, until an exceedance occurs.

- (3) An alternative emission limit of 0.01 milligram per day standard cubic meter (mg/dscm) will be applicable if the chromium electroplating bath does not meet the limit above.
- (4) A summary report shall be prepared to document the ongoing compliance status of the chromium electroplating operation. This report shall be completed annually, retained on site, and made available to IDEM upon request. If there are significant exceedance of chromium air emission limits (as defined in 40 CFR Part 63.347(h)(2)), then semiannual reports shall be submitted to:

Indiana Department of Environmental Management
Air Compliance Branch, Office of Air Management
Chromium Electroplating
100 North Senate Avenue, P.O. Box 6015
Indianapolis, Indiana 46206

- (5) The chromium electroplating operations shall be subject to the record keeping and reporting requirement as indicated in the chromium electroplating NESHAP.
- (ii) The cold cleaning degreaser is not subject to the requirements of the National Emission Standards for Hazardous Air Pollutants (NESHAPs), 326 IAC 14, (40 CFR 63.460, Subpart T) because the total concentration of the listed Hazardous Air Pollutants (HAPs) by weight in cold cleaner 699 is less than five(5%).

State Rule Applicability - Entire Source

326 IAC 2-6 (Emission Reporting)

This source is located in Jay County and the potential to emit of any of the criteria pollutants is less than one hundred (100) tons per year. Therefore, 326 IAC 2-6 does not apply.

326 IAC 5-1 (Visible Emissions Limitations)

Pursuant to 326 IAC 5-1-2 (Opacity Limitations), except as provided in 326 IAC 5-1-3 (Temporary Exemptions), opacity shall meet the following, unless otherwise stated in this permit:

- (a) Opacity shall not exceed an average of forty percent (40%) any one (1) six (6) minute averaging period as determined in 326 IAC 5-1-4.
- (b) Opacity shall not exceed sixty percent (60%) for more than a cumulative total of fifteen (15) minutes (sixty (60) readings) as measured according to 40 CFR 60, Appendix A, Method 9 or fifteen (15) one (1) minute nonoverlapping integrated averages for a continuous opacity monitor) in a six (6) hour period.

State Rule Applicability - Individual Facilities

326 IAC 6-3-2 (Process Operations)

Interpolation and extrapolation of the data for the process weight rate up to sixty thousand (60,000) pounds per hour shall be accomplished by use of the equation:

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

Shot Blasters(2):

$$P = 125 \text{ lbs} = 125 \text{ lbs} \times 1 \text{ ton}/2000 \text{ lbs} = 0.0625 \text{ tons}$$

$$E = 4.10 P^{0.67} \quad \text{where } E = \text{rate of emission in pounds per hour and} \\ P = \text{process weight rate in tons per hour}$$

$$E = 4.10 (0.0625)^{0.67} = 0.6398 \text{ pounds per hour}$$

The PTE of each shot blaster is 0.0098 pounds per hour, so this machine meets this rule.

The baghouses/baghouse shall be in operation at all times the shotblasters/shotblaster are/is in operation, in order to comply with this limit.

326 IAC 8-3-2 (Cold Cleaner Operation)

This cold cleaner facility performs organic degreasing operations and was constructed after January 1, 1980. Therefore, 326 IAC 8-3-2 is applicable to this cold cleaner facility.

The owner or operator of a cold cleaning facility shall:

- (1) equip the cleaner with a cover;
- (2) equip the cleaner with a facility for draining cleaned parts;
- (3) close the degreaser cover whenever parts are not being handled in the cleaner;
- (4) drain cleaned parts for at least fifteen(15) seconds or until dripping ceases;
- (5) provide a permanent, conspicuous label summarizing the operating requirements;
- (6) store waste solvent only in covered containers and not dispose of waste solvent or transfer it to another party, in a such a manner that greater than twenty percent(20%) of the waste solvent (by weight) can evaporate into the atmosphere.

326 IAC 8-3-5 (Cold Cleaner Degreaser Operation and Control)

This cold cleaner facility does not have a remote control solvent reservoir and was constructed after July 1, 1990. Therefore, 326 IAC 8-3-5 is applicable to this facility.

- (a) The owner or operator of a cold cleaner degreaser facility shall ensure that the following control equipment requirements are met:

- (1) Equip the degreaser with a cover. The cover must be designed so that it can be easily operated with one(1) hand if:
 - (A) the solvent volatility is greater than two(2) Kilo Pascals (fifteen (15) millimeters of mercury or three-tenths(0.3) pounds per square inch) measured at thirty-eight degrees Celsius(38 °C)(one hundred degrees Fahrenheit (100 °F);
 - (B) the solvent is agitated; or
 - (C) the solvent is heated.
- (2) Equip the degreaser with a facility for draining cleaned articles. If the solvent volatility is

- greater than four and three-tenths (4.3) Kilo Pascals (thirty-two (32) millimeters of mercury or six-tenths(0.6) pounds per square inch) measured at thirty-eight degrees Celsius(38 °C)(one hundred degrees Fahrenheit (100 °F), then the drainage facility must be internal such that articles are enclosed under the cover while draining. The drainage facility may be external for applications where an internal type can not fit into the cleaning system.
- (3) Provide a permanent, conspicuous label which lists the operating requirements outlined in subsection (b).
 - (4) The solvent spray, if used, must be a solid, fluid stream and shall be applied at a pressure which does not cause excessive splashing.
 - (5) Equip the degreaser with one(1) of the following control devices if the solvent volatility is greater than four and three-tenths (4.3) Kilo Pascals (thirty-two (32) millimeters of mercury or six-tenths(0.6) pounds per square inch) measured at thirty-eight degrees Celsius(38 °C)(one hundred degrees Fahrenheit (100 °F), or if the solvent is heated to a temperature greater than forty-eight and nine-tenths degrees Celsius (48.9 °C)(one hundred twenty degrees Fahrenheit(120 °F):
 - (A) A freeboard that attains a freeboard ratio of seventy-five hundredths(0.75) or greater.
 - (B) A water cover when a solvent used is insoluble in, and heavier than, water.
 - (C) Other systems of demonstrated equivalent control such as a refrigerated chiller or carbon adsorption. Such systems shall be submitted to the US EPA as a SIP revision.
- (b) The owner or operator of a cold cleaning facility shall ensure that the following operating requirements are met:
- (1) Close the cover whenever articles are not being handled in the degreaser.
 - (2) Drain cleaned articles for at least fifteen (15) seconds or until dripping ceases.
 - (3) Store waste solvent only in covered containers and prohibit the disposal or transfer of waste solvent in any manner in which greater than twenty percent(20%) of the waste solvent by weight could evaporate.

Conclusion

The operation of this decorative chromium electroplating plant for antique car shall be subject to the conditions of the attached proposed Minor Source Operating Permit 075-11672-00028.

Potential to Emit (PTE) of Shot Blast Machines:

Particulate Matter

Flow rate of Sand at 3/8"(FR1) @ 80 psi = 600 lbs/hr

Specific gravity of Glass Beads = 2.6 = 2.6 g/cm³

Density of Glass Beads(P) = 2.6 g/cm³ x 62.428 (lbs/ft³)/(g/cm³) = 162.31 lbs/ft³

Density of Sand(P1) = 99 lbs/ft³

Actual internal diameter of the nozzle(ID) = 0.325"

Nozzle diameter from Table 3-3(ID1) = 0.325"

Flow Rate of Grit(FR) = FR1 x ((ID)² / (ID1)²) x P/P1

= 600 lbs/hr x ((0.325")² / (0.325")²) x 162.31 lbs/ft³/99 lbs/ft³

= 983.7 lbs/hr

Emission factor lb PM/ lb Abrasive = 0.010

Emission factor lb PM10/lb PM = 0.010

Potential to Emit of PM before controls = Flow rate of Grit x Emission Factor lb PM/lb Abrasive

Potential to Emit of PM 10 before controls= PTE of PM before controls x Emission factor
lb PM10/lb PM

Potential to Emit of PM/PM10 before controls = 983.7 lbs/hr x 0.010

=9.84 lbs PM/hr = 43.1 tons of PM and PM-10/yr

Potential to Emit of PM/PM10 before controls of the two(2) shot blast machines = 43.1 tons/yr x 2

=86.2 tons/yr

Efficiency of baghouse = 99.9 %

Potential to Emit of PM/PM10 after controls = 86.2 tons PM/yr x (1 - 0.999) = 0.0862 tons PM/yr.

The baghouse is an integral part of the system because glass beads are recovered from the baghouse. So the PTE of the shot blast machine is considered after controls.

Note: Emission Factors from Air Quality Permits STAPPA ALAPCO Section 3, Edition May 30, 1991

Potential to Emit (PTE) of Cold Cleaner:

Maximum cold cleaner usage per year = 40 gallons/yr

Maximum amount of VOC in the cold cleaner = 85.2%

Density of the cold cleaner = 7.9 lbs/gal

Potential to Emit of the cold cleaner = 40 gallons/yr x 0.852 lb of VOC/1 lb of cold cleaner x 7.9 lbs/gal
x 1 ton /2000 lbs = 0.135 tons of VOC/yr.

Appendix A: Emissions Calculations

Natural Gas Combustion Only

MM BTU/HR <100

Three(3) space heaters

Company Name: J & P Custom Plating, Inc

Address City IN Zip: 807 N. Meridian, Portland, Indiana 47371

CP: 075-11672

Plt ID: 075-00028

Reviewer: Spahi

Date: 03-16-2000

Heat Input Capacity
MMBtu/hr

Potential Throughput
MMCF/yr

0.4

3.2

Pollutant						
Emission Factor in lb/MMCF	PM*	PM10*	SO2	NOx	VOC	CO
	1.9	7.6	0.6	100.0	5.5	84.0
				**see below		
Potential Emission in tons/yr	0.0	0.0	0.0	0.2	0.0	0.1

*PM emission factor is filterable PM only. PM10 emission factor is filterable and condensable PM10 combined.

**Emission Factors for NOx: Uncontrolled = 100, Low NOx Burner = 50, Low NOx Burners/Flue gas recirculation = 32

Methodology

All emission factors are based on normal firing.

MMBtu = 1,000,000 Btu

MMCF = 1,000,000 Cubic Feet of Gas

Potential Throughput (MMCF) = Heat Input Capacity (MMBtu/hr) x 8,760 hrs/yr x 1 MMCF/1,000 MMBtu

Emission Factors are from AP 42, Chapter 1.4, Tables 1.4-1, 1.4-2, 1.4-3, SCC #1-02-006-02, 1-01-006-02, 1-03-006-02, and 1-03-006-03 (SUPPLEMENT D 3/98)

Emission (tons/yr) = Throughput (MMCF/yr) x Emission Factor (lb/MMCF)/2,000 lb/ton

Note: Check the applicable rules and test methods for PM and PM10 when using the above emission factors to confirm that the correct factor is used (i.e., condensable included/not included).

See page 2 for HAPs emissions calculations.